Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

Project: GRASP – Real World Quadratics

Geometry

**Due Date: Wednesday, Nov. 21st**

Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

We have spent the last 3 weeks learning different methods to help us solve quadratic equations. The end of the unit required us to apply our knowledge of quadratic equations to solve real world problems involving projectile motion. In groups, you will create a problem that requires use of the vertical motion model. You will have time in class to work on your project today, and Wednesday (half day). ***It is due Wednesday at the end of class.*** Below is the rubric that will be used to grade your group’s project. Everyone in the group must complete the project. Your teacher will grade **one** person’s project in the group, and this will be the group grade.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 15 | 10 | 5 | **Total** |
| **Story Problem** | -Creative (in context; there must be a story)  -3 or more sentences  -Must require the use of the vertical motion model | Missing one of the following:  -Creative (in context; there must be a story)  -3 or more sentences  -Must require the use of the vertical motion model | Missing two of the following:  -Creative (in context; there must be a story)  -3 or more sentences  -Must require the use of the vertical motion model | **\_\_\_ / 15** |
| **Question #1** | -Requires ZERO function  -Accurately GRASP’d  -Complete sentences for “S” and “P” of GRASP  -Correct units | -Requires ZERO function  -GRASP is missing one or more components | -ZERO function not used  OR  -Completed without GRASP | **\_\_\_ / 15** |
| **Question #2** | -Requires MAXIMUM function  -Accurately GRASP’d  -Complete sentences for “S” and “P” of GRASP  -Correct units | -Requires MAXIMUM function  -GRASP is missing one or more components | -MAXIMUM function not used  OR  -Completed without GRASP | **\_\_\_ / 15** |
| **Question #3** | -Requires TRACE function  -Accurately GRASP’d  -Complete sentences for “S” and “P” of GRASP  -Correct units | -Requires TRACE function  -GRASP is missing one or more components | -TRACE function not used  OR  -Completed without GRASP | **\_\_\_ / 15** |
| **Question #4 (Extra Credit)** | **1 point for each correct component:**  -Requires INTERSECT function  -Accurately GRASP’d  -Complete sentences for “S” and “P” of GRASP  -Correct units | | | **\_\_\_ / 15** |